

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant
Andrew R. Barron et al.Filing Date
09/28/00Group
1731

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
CF	AA	4496714	01/29/85	Murata et al.	528	272	
CF	AB	4676928	06/30/87	Leach et al.	252	313.1	
CF	AC	4952634	08/28/90	Grossman	525	190	
CF	AD	5212261	05/18/93	Stierman	525	506	
CF	AE	5593781	01/14/97	Nass et al.	428	403	
CF	AF	5418298	5/23/95	Laine et al.	525	389	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	Translation YES NO	
CF	AG	9723288	03.07.97	WIPO			X	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CF	AH	✓	H. Schmidt and H. Krug, "Sol-gel-based inorganic-organic composite materials", ACS Symp. Se. 572, No. Inorganic and Organometallic Polymers II, 183-194, (1994)
CF	AI	✓	Y. Kimura, S. Tanimoto, H. Yamane, T. Kitao, "Coordination Structure of the Aluminium Atoms of Poly (Methylaloxane), Poly (Isopropoxylaloxane) and Poly [Acyloxy] Aloxane", Polyhedron, Vol. 9, no. 2/3, 371-376, (1990)
CF	AJ	✓	Harry S. Katz, et al. <i>Handbook of Fillers and Reinforcements for Plastics</i> , Van Nostrand Reinhold Company, 1978 (49 p.)
CF	AK	✓	Bryan Ellis, <i>Chemistry and Technology of Epoxy Resins</i> , Blackie Academic & Professional, an Imprint of Chapman & Hall, (80 p.)
CF	AL	✓	R. Kasemann, H. Schmidt; <i>Coatings for Mechanical and Chemical Protection based on Organic-Inorganic Sol-Gel Nanocomposites</i> ; <i>New Journal of Chemistry</i> , Vol. 18, No. 10-1994; (pp. 1117-1123)
CF	AM	✓	C. T. Vogelson, et al; <i>Inorganic-Organic Hybrid and Composite Materials Using Carboxylate-Alumoxanes</i> ; (undated) (pp. 8)
CF	AN	✓	S. Pasynkiewicz, <i>Alumoxanes: Synthesis, Structures, Complexes and Reactions</i> , Polyhedron, Vol. 9, No. 2/3, 1990 (25 p.)
CF	AO	✓	K. Nakamac, et al; <i>Studies on Mechanical Properties of Polymer Composites by X-Ray diffraction: 3. Mechanism of Stress Transmission in Particulate Epoxy Composite by X-Ray Diffraction</i> ; <i>Polymer</i> , 1992, vo.. 33, No. 13; (pp. 2720-2724)
CF	AP	✓	H. Jullien, et al. <i>The Microwave Reaction of Phenyl Glycidyl Ether with Aniline on Inorganic Supports: a Model for the Microwave Crosslinking of Epoxy Resins</i> ; <i>Polymer</i> , Vol. 37, No. 15; 1996; (pp. 3319-3330)
CF	AQ	✓	H. Schmidt, et al; <i>Chemistry and Applications of Inorganic-Organic Polymers</i> ; <i>Mat. Res. Soc. -Symp. Prac. Vol. 73</i> ; 1986; (pp. 739-750)
CF	AR	✓	J. de Wit, et al; <i>Evaluation of Coatings - A Total System Approach</i> ; <i>Materials Science Forum</i> , vol. 247 (1997) (pp. 69-82)
CF	AS	✓	Jacqueline I. Kroschwitz, et al., <i>Encyclopedia of Polymer Science and Engineering</i> , Vol. 6, <i>Emulsion Polymerization to Fibers, Manufacture</i> , A Wiley-Interscience Publication, 1985, (66 p.)
CF	AT	✓	Christopher C. Landry, et al., <i>From Minerals to Materials: Synthesis of Alumoxanes from the Reaction of Boehmite with Carboxylic Acids</i> , Department of Chemistry, Harvard University, 1995 (11 p.)
CF	AU	✓	A. Apblett, et al; <i>Synthesis and Characterization of Triethylsiloxy-Substituted Alumoxanes: Their Structural Relationship to the Minerals Boehmite and Diaspore</i> ; <i>American Chemical Society</i> ; 1992; (pp. 167-181)
CF	AV	✓	Y. Koide, et al; <i>[Al₃(Bu)₅μ₃-O]₂(μ-OH)₂(μ-O₂CPh)₂]: A Model for the Interaction of Carboxylic Acids with Boehmite</i> ; <i>American Chemical Society</i> 1995; (pp. 4025-4029)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

CHRISTOPHER A. FIORILLA
PRIMARY EXAMINER
AU 1731

Form PTO-1449 (Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use several sheets if necessary)Atty. Docket No.
1789-02202Serial No.
09/670,230Applicant
Andrew R. Barron et al.Filing Date
09/28/00Group
1731

Form PTO-1449 (Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use several sheets if necessary)Atty. Docket No.
1789-02202Serial No.
09/670,230Applicant
Andrew R. Barron et al.Filing Date
09/28/00Group
1731**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

CF	AW	✓ Y. Koide, et al; <i>Alumoxanes as Cocatalysts in the Palladium-Catalyzed Copolymerization of Carbon Monoxide and Ethylene: Genesis of a Structure-Activity Relationship</i> ; Organometallics, vol. 15, No. 9. (pp. 2213-2226)
CF	AX	✓ A. MacInnes, et al; <i>Chemical Vapor Deposition of Gallium Sulfide: Phase Control by Molecular Design</i> ; American Chemical society, 1993; (pp. 1344-1351)
CF	AY	✓ R. S. Bauer, <i>Epoxy Resins</i> , American Chemical Society, 1985 (15 p.)
CF	AZ	✓ C. Landry, et al; <i>Siloxy-Substituted Alumoxanes: Synthesis from Polydialkylsiloxanes and Trimethylaluminum, and Application as Aluminosilicate Precursors</i> ; J. Mater. Chem. 1993; (pp. 597 - 6020)
CF	BA	✓ K. Andrianov, et al; <i>Synthesis of New Polymers with Inorganic Chains of Molecules</i> ; Journal of Polymer science, Vol. XXX, 1958 (pp. 513-524)
CF	BB	✓ G. Whiteside, et al; <i>Articles; Molecular Self-Assembly and Nanochemistry: A chemical Strategy for the Synthesis of Nanostructures</i> ; Science, Vol. 254, November 1991; (pp. 1312 - 1319)
CF	BC	✓ B. Yoldas; <i>Alumina Gels that Form Porous Transparent Al₂O₃</i> Journal of Materials Science 1975; (pp. 1856-1860)
CF	BD	✓ Malcolm P. Stevens, <i>Polymer Chemistry, An Introduction</i> , Oxford University Press, 1990 (9 p.)
CF	BE	✓ A. Kareiva, et al; <i>Carboxylate-Substituted Alumoxanes as Processable Precursors to Transition Metal-Aluminum and Lanthanide-Aluminum Mixed-metal Oxides: Atomic Scale Mixing via a New Transmetalation Reaction</i> ; American Chemical Society 1996 (pp. 2231-2340) <i>XP</i>
CF	BF	✓ K. Canender; <i>Aqueous Synthesis of Water-Soluble Alumoxanes</i>; American Chemical Society 1994 (pp. 2231-2340)
CF	BG	✓ C. Vogelson, et al; <i>Inorganic-Organic Hybrid and Composite Materials Using Carboxylate-Alumoxanes</i> ; World Ceramics Congress, June 14-19, 1998; (pp. 499 - 506)
CF	BH	✓ J. M. G. Cowie, Professor of Chemistry, University of Stirling, <i>Polymers: Chemistry and Physics of Modern Materials</i> , Intertext Books, (13 p.)
CF	BI	✓ <i>Thermal Conductivity of Epoxy resin-Aluminum (0 to 50%); and Divalent Chromium in Alkaline Earth Silicate Systems</i> ; Chapman and Hall Ltd.; 1977; (pp.1689 - 1691)
CF	BJ	✓ H. Schmidt et al., <i>Inorganic-Organic Hybrid Coatings for Metal and Glass Surfaces</i> , American Chemical Society 1995 (pp. 331-347)

* Reference BF has been lined through because it is a duplicate of reference AE on the 3/11/03 PTO-1449. Also the copy of the BF reference furnished is incomplete.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

CHRISTOPHER A. FIORILLA
PRIMARY EXAMINER
Au 1731

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant
Andrew R. Barron et al.Filing Date
09/28/00Group
1731

MAR 11 2003

REFERENCE DESIGNATION OF U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	Translation	
							YES	NO
CF	AA	WO 97/24297	10.07.97	PCT	C04B	38/00	X	
CF	AB	0 576 695 A1	26.06.92	Europe	C07F	5/06	X	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CF	AC	International Search Report for Application No. PCT/US 99/ 06137 dated July 6, 1999 (4 p.)
CF	AD	Kareiva et al.; <i>Carboxylate-Substituted Alumoxanes as Processable Precursors to Transition Metal-Aluminum and Lanthanide-Aluminum Mixed-Metal Oxides: Atomic Scale Mixing via a New Transmetalation Reaction</i> ; Chemistry of Materials, vol. 8, no. 9, 1996 (pp. 2331-2340)
CF	AE	Callender et al., <i>Aqueous Synthesis of Water-Soluble Alumoxanes: Environmentally Benign Precursors to Alumina and Aluminum-Based Ceramics</i> ; Chemistry of Materials, vol. 9, no. 11, November 1, 1997 (pp. 2418-2433)
CF	AF	Chemical Abstracts, vol. 111, no. 24, December 11, 1989, abstract no. 218306m, UHLHORN, R.J.R.: High permselectivities of microporous silica modified gamma-alumina membranes: XP000181419

EXAMINER

ca full

DATE CONSIDERED

5/14/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

CHRISTOPHER A. FIORILLA
PRIMARY EXAMINER
Au 1731